

PURCHASING ITEM FOR COUNCIL AGENDA Memo No. CA13-096

1. Agenda Item Number:

2. Council Meeting Date: December 13, 2012

TO: M

MAYOR & COUNCIL

3. Date Prepared: November 30, 2012

THROUGH:

CITY MANAGER

4. Requesting Department: Municipal Utilities

- 5. SUBJECT: Change Order No. 2 Ocotillo Water Transmission Main and Wastewater Forcemain.
- **6. RECOMMENDATION:** Staff recommends Council approve Change Order No. 2 to the Construction Manager at Risk contract with Achen-Gardner Construction, LLC for Phase II of the Ocotillo Water Transmission Main and Wastewater Forcemain, Project No. WW1105-402, in the amount of \$587,300.48 for a revised contract price of \$13,786,565.85.
- 7. BACKGROUND/DISCUSSION: On May 24, 2012 Council approved a Construction Manager at Risk contract with Achen-Gardner Construction, LLC to construct the Ocotillo Water Transmission Main and Wastewater Forcemain. Work under this project includes a new 36" forcemain to transfer wastewater flows from the Ocotillo Water Reclamation Facility to the Airport Water Reclamation Facility for treatment, and a new 24" water transmission main to serve future system demands in southwest Chandler.

The related expansion of the Airport Water Reclamation Facility (AWRF) necessitates a dedicated power feed, connecting the AWRF facility to SRP's Pace Substation, located adjacent to the Consolidated Canal, south of Ocotillo Road. McCarthy Building Co. included an allowance in their existing GMP to accommodate this work. Achen Gardner, as part of their current contract will be installing the 36" forcemain adjacent to the canal from Ocotillo Road to the AWRF. In an effort to reduce costs and take advantage of the forcemain construction adjacent to the Consolidated Canal, staff solicited a proposal from Achen-Gardner to install the required electrical conduit. Achen-Gardner's costs were lower than the cost McCarthy had included in the AWRF Expansion project. Staff believes the best approach is to shift the trench and conduit installation to Achen-Gardner's scope of work for the Ocotillo Water Transmission Main and Wastewater Forcemain contract. A cost savings of approximately \$90,000 will be realized by having Achen-Gardner perform the installation.

Also, included in this change order is the removal and replacement of an existing 16" asbestos cement (AC) waterline in Ocotillo Road. The portion to be replaced is between the railroad tracks and the canal on Ocotillo Road that lays parrallel and is in possible conflict with the new 24" transmission main currently under construction. The City recently encountered significant maintenance issues with AC pipe material as it ages, including two recent waterline breaks on Chandler Boulevard. This portion of the work will be funded by the City. This water main installation will shorten the future street project schedule.

8. EVALUATION: The selection process was followed in accordance with State law for design services. Twelve Statements of Qualifications were received from qualified firms on November 4, 2011. The Selection Committee included the following members:

Bob Fortier, Construction Project Manager
Joshua Plumb, P.E., Engineering Project Manager
Kim Neill, Utilities Operations Manager
Alvin Robertson, Wastewater Collection Superintendent
Terry Cole, Chandler Resident/Contractor
John Rydzewski, Intel Corporation

Achen-Gardner Construction, LLC was selected based on qualifications, construction capability, current workload, and experience.

9. FINANCIAL IMPLIC	CATIONS:				
Cost:	\$587,3	00.48			
Savings:	\$90,00	0.00			
Fund Source: <u>Account No.:</u> 615.3910.6810.6WW022 601.3820.6712.6WA110	Fund Name: Wastewater Operating Water Bond		i <u>me:</u> amation Facility Expansion em Upgrades w/Street Projects	CIP Funded: Yes Yes	Amount: \$189,791.06 \$397,509.42
Risk contract with Ach and Wastewater Force	en-Gardner Construc main, Project No. WV 5, and authorize the N	tion, LLC fo V1105-402	Change Order No. 2 to the or Phase II of the Ocotillo , in the amount of \$587,30 gn the contract documents	Water Transi 0.48 for a rev	mission Main
	_	APPRO	VALS		
11. Requesting Depa	rtment		12. Department Head	1	
John Knadson, Utilities	Engineering Manage	er	Dave Siegel, Municipal L	Jtilities Directo	or
13. Transportation &	Development		14. City Manager		
Bobto	tur		Ruh Dlug	us	
Bob Fortier, Capital Pr	ojects Manager		Rich Dlugas	3	
Lin Sel	-		_		
Sheina Hughes, City E	ngineer				

CITY OF CHANDLER CHANGE ORDER NUMBER_ DATE

	is not valid until signed by herewith, including any adjust		Contractor. Signature of the Contractorics or Contract Time.
PROJECT NAME PROJECT NO. USER DEPT	South Chandler Force Mai Ocatillo Water Reclamation Facility to Airport Water Reclamation Facility and Water Transmission Mair WW1105-402 Municipal Utilities	n	Achen-Gardner Construction 415,3310.5922,0000.6\$T607.000 06/01/12
TO: Achen-G	ardner Construction		
YOU ARE DIRECTE	(CONTRACTOR) ED TO MAKE THE FOLLOWING TO detail and/or reference attack		
SRP ductbank (Oco	tillo Rd. to AWRF); and remove	ve and replace approxir	cidentals as required to construct an matery 2,100 lineal feet of 16" AC ached hereto and incorporated herein to
ORIGINAL CONTRA	ACT AMOUNT:		\$13,057,196.8
CURRENT CONTR	ACT PRICE PRIOR TO CHA	NGE ORDER:	\$13,199,265.3
(Including previous	change orders) :ULTING FROM THIS CHANG	SE UBIJEB:	\$587,300.4
	CT PRICE INCLUDING THIS		\$13,786,565.8
CHANGE ORDER	S % OF ORIGINAL CONTRA	CT AMOUNT:	4.50%
	OR COMPLETION DATE PR Including previous change on		4/1/13 DAYS DATE
NET CHANGE RES	BULTING FROM THIS CHAN	3E ORDER:	DAYS
REVISED CONTRA	ACT TIME AND COMPLETIO	N DATE:	0 4/1/13
THE ABOVE IS AG	REED TO BY:		DAYS DATE
Ashan Osa	da a a Camalini salian	(1)	11-30-12
CONTRACTOR	dner Construction	By:	Poitza / Vice President Date
atime an activities	ED (Data & Manager of Organs)		•
CITY OF CHANDL	ER (Date & Name of Owner	Dehr. Aginal aphicasi	<i>.</i>
For Change Orders	of less than \$50,000 and 10	% of contract price:	
Title:		Signature	
Department Directo	or or Designee	By:	Date
Or (but not both) For Change Orders	of \$50,000 or more, or 10%	or more of contract pric	:0 ;
MAYOF	-	Date:	
Approved by Coun			
	Date	Attest: City Clerk	Date
Approved as to for Revised 1-08 City /	Attorney W		
22010 (update 2/25/03)	The state of the s		WW1105-402 CQ 2 READY correct version

EXHIBIT B SCOPE OF WORK

REMOVE AND REPLACE AC WATERLINE PIPE

Scope of work is for the removal and replacement of approximately 2100 LF of existing ACP potable waterline on Ocotillo Road. Reinstallation of 16" waterline shall be with PR350, CL50 ductile iron pipe. This work is to be performed concurrently with the installation of the 24" water transmission main pipeline. The new 16" pipeline will be reconnected to the existing water main at the east side of the UPRR tracks and at the west side of the Consilidated Canal. Both waterlines are to be installed in a single common trench. The new 16" waterline will be installed to the 24" water transmission main profile.

SRP DUCTBANK (OCOTILLO RD. TO AWRF)

Scope of work is for the installation of approximately 3700 LF of buried electical duct bank containing 3 ' 3" DB120 conduits and 5 each sweep locations for pull enclosures (to be supplied by SRP.) The bruied duct bank will follow an alignment and scope limits as shown on the attached sketch DB-1.

LIST OF DOCUMENTS

- Change Order #2 is based on the following documents
- GMP 1 Construction Agreement dated 4/18/12, GMP 2 Construction Agreement dated 5/31/12 and GMP2 Change Order No. 1 dated 7/27/12
- Ocotillo WRF Water Transmission Main GMP2B plans, Black & Veatch (6/7/12)
- Achen-Gardner sketch DB-1 dated 11/15/12
- SRP Diagrams YE-22-02, YE-15-16, and YE-15-08 as received from Tim Rinn, SRP on 11/8/12

ASSUMPTIONS, CLARIFICATIONS, INCLUSIONS & EXCLUSIONS

- Appropriate disposal of ACP pipe materials is included
- 2' separation (minimum) shall be maintained between the 16" and 24" waterlines
- Bypass piping and temporary connections are excluded
- No concrete or slurry encasement removals are included
- Excludes design engineering
- SWPPP and QC testing are to be performed under existing 24" Transmission Main GMP 2 scope
- Conduit for SRP duct bank to be installed with 48" minimum cover to existing grade
- Conduit for SRP duct bank to be installed with spacers located 6' on center
- Conduit for SRP duct bank to be installed using 1 1/2 sack non-reinforced CLSM red-dyed slurry
- Contractor shall install pull tape in each conduit after completion of the duct bank and pull enclosure installation
- Contractor shall install bare copper tracer wire and warning tape
- SRP duct bank installation does not include installation of electrical conductors or any other electrical devices not identified in SRP plans. No connections to existing electrical systems, cabinets,
- No design has been completed by SRP for the work under this proposal. Assumptions regarding materials, methods and scope are based solely on the list of documents
- Alignment of the duct bank is assumed to be within the existing SRP ROW on the western side of the Consolidated Canal. Construction of the duct bank will require daily closures of the canal access
- SRP duct bank installation excludes survey and materials testing
- Change order work includes traffic control and dust control, as needed
- Excludes relocation or other modifications of existing utilities, except as detailed in this change order

EXHIBIT A FEE

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Tem #	The scribing in the second of	STATE OF THE STATE	2112	223.11.0	
	REMOVE AND REPLACE AC WATER PIPELINE				
- 9	Remove and replace 16" waterline using PR3510, CL50 DI pipe material	2,100	<u> </u>	134.80	283,080.00
107	16" waterline horizontal realignment	+	EA	1,400.00	1,400.00
109	Tie in 12" waterline at Centre Point	1	EA	14,622.88	14,622.88
111	Pothole/Survey/As-Builts (allowance)	1	ST	12,500.00	12,500.00
113	Pole bracing (allowance)	3	EA	2,000.00	6,000.00
	VIII TO TO TO				
	SRF DUCI BANK (OCCILLO RD. 10 AWK)	200	<u></u>	0000	100 151 00
10	Install 3 - 3" conduit duct bank	3,700	5	23.23	100,101,00
20	Sub up/build pad for pull enclosure	c	5	514.61	2,573.05
40	Remove/replace asphalt	\$	ΣŚ	214.78	9,665.10
20	Traffic/pedestrian control	-	S	9,744.83	9,744.83
8	Brace poles (allowance)	7	ស	2,000.00	14,000.00
2/	Restore SRP O&M road	1	S	7,505.65	7,505.65
	SUBTOTAL CONSTRUCTION DIRECT COSTS				\$ 469,242.51
1006	CONSTRUCTION CONTINGENCY FOR MATERIAL QUANTITY CHANGES (5%)	2%	%		23,462.13
	(5% items 10,20,40,50,60,70,106,107,109,111,113)				
接続はあること	Subtotal - Construction Direct Costs Plus Contingency			and the first of the second of	\$ 492,704.64
1002	Contractor's Fee for Overhead (7.5%) and Profit (2.5%) OR Total Fee of 10%	10%	%		49,270.46
The second second					\$ 49,270,46
100 may 223	Running Total #1Total Wie Bond Instirance & La	X. C. C. C.	新港等	学生に対象を記事 に	54/1975/10
			1		
1003	res l	1.5%	%		8,129.63
100 201	General Contractor's Bond (1% of Running Total #1)(Allowance)	1.0%	8		5,419.75
		10 to	1		ľ
	Kunning Iotal#2Iotalwiotaa				\$ 555,524.48
1005.9	Sales Tay (COC 65% of 8 8% or 5.72% of Running Total #2) (Allowance)	5.72%	%		31,776.00
	Tax Credits (Allowance) (Current Estimated Costs - Storm Drain, Imgation Pipe, Potable, and				
1005.b		Allow	<u>B</u>		1
1005	SOXET INTO HIS CONTRACTOR SOCIETY CONTRACTOR	2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1			31 776 00
3	Running Total - TOTAL C				

